

## APPENDIX III

### OVERALL WIRELESS INDUSTRY METRICS

#### Network Coverage

**Table III.A.i**

#### **Estimated Mobile Wireless Coverage by Census Block Including Federal Land, July 2014**

Number of Providers with Coverage in a Block	Number of Blocks	POPs Contained in Those Blocks	% of Total US POPs	Square Miles Contained in Those Blocks	% of Total US Square Miles	Road Miles Contained in Those Blocks	% of Total US Road Miles
<i>US Total</i>	11,155,486	312,471,327	100.0	3,802,067	100.0	6,821,187	100.0
<b>1 or more</b>	10,999,962	312,255,368	99.9	2,920,785	76.8	6,594,608	96.7
<b>2 or more</b>	10,691,541	310,986,957	99.5	2,558,067	67.3	6,189,521	90.7
<b>3 or more</b>	9,650,482	303,089,873	97.0	1,855,543	48.8	5,082,240	74.5
<b>4 or more</b>	8,144,671	286,485,775	91.7	1,185,433	31.2	3,801,667	55.7
<b>5 or more</b>	2,590,751	69,661,444	22.3	432,297	11.4	1,326,789	19.5

Note: Based on July 2014 Mosaik Data and 2010 Census Data. Calculations based on Mosaik data on coverage, while useful for measuring developments in mobile wireless coverage, have certain limitations that likely overstate the extent of mobile broadband coverage. The number of providers in a census block reflects network coverage, which does not necessarily reflect the number of choices available to a particular individual or household. *[This table has been updated from January 2014 Mosaik to July 2014 Mosaik data post-release of the 17th Report.]*

**Table III.A.iv**  
**Estimated Mobile Wireless Broadband Coverage by Census Block Including Federal Land,**  
**July 2014**

Number of Providers with Coverage in a Block	Number of Blocks	POPs Contained in Those Blocks	% of Total US POPs	Square Miles Contained in Those Blocks	% of Total US Square Miles	Road Miles Contained in Those Blocks	% of Total US Road Miles
<i>US Total</i>	11,155,486	312,471,327	100.0	3,802,067	100.0	6,821,187	100.0
<b>1 or more</b>	10,955,702	312,118,007	99.9	2,832,670	74.5	6,528,708	95.7
<b>2 or more</b>	10,544,464	310,262,066	99.3	2,415,777	63.5	6,004,106	88.0
<b>3 or more</b>	8,881,020	295,221,340	94.5	1,476,974	38.8	4,389,681	64.4
<b>4 or more</b>	6,491,889	260,777,934	83.5	727,854	19.1	2,714,465	39.8
<b>5 or more</b>	1,153,809	38,481,044	12.3	147,041	3.9	517,579	7.6

Note: Based on July 2014 Mosaik Data and 2010 Census Data. Calculations based on Mosaik data on coverage, while useful for measuring developments in mobile wireless coverage, have certain limitations that likely overstate the extent of mobile broadband coverage. The number of providers in a census block reflects network coverage, which does not necessarily reflect the number of choices available to a particular individual or household. *[This table has been updated from January 2014 Mosaik to July 2014 Mosaik data post-release of the 17th Report.]*

**Table III.A.vi**  
**Estimated Mobile Voice Coverage in Rural Areas by Census Block, July 2014**

Total Number of Providers with Coverage in a Block	Number of Rural Census Blocks	POPs Contained in Rural Census Blocks	% of Total U.S. POPs	Square Miles Contained in Those Blocks	% of Total U.S. Square Miles	Road Miles Contained in Those Blocks	% of Total U.S. Road Miles
<i>Total for Rural U.S.</i>	5,387,335	59,151,859	18.9	3,213,692	84.5	4,591,032	67.3
			% of Total Rural U.S. POPs		% of Total Rural U.S. Square Miles		% of Total Rural U.S. Road Miles
<b>1 or More</b>	5,170,059	58,746,634	99.3	2,274,978	70.8	4,269,485	93.0
<b>2 or More</b>	4,800,127	57,171,030	96.7	1,847,988	57.5	3,756,979	81.8
<b>3 or More</b>	3,780,922	49,637,522	83.9	1,197,932	37.3	2,677,632	58.3
<b>4 or More</b>	2,511,681	37,315,228	63.1	641,227	20.0	1,590,114	34.6
<b>5 or More</b>	1,003,192	15,942,179	27.0	217,282	6.8	581,484	12.7

Note: Based on July 2014 Mosaik Data and 2010 Census Data. This table includes federal lands. Calculations based on Mosaik data on coverage, while useful for measuring developments in mobile wireless coverage, have certain limitations that likely overstate the extent of mobile broadband coverage. The number of providers in a census block reflects network coverage, which does not necessarily reflect the number of choices available to a particular individual or household. *[This table has been updated from January 2014 Mosaik to July 2014 Mosaik data post-release of the 17th Report.]*

**Table III.A.vii**  
**Estimated Mobile Voice Coverage in Non-Rural Areas by Census Block, July 2014**

Total Number of Providers with Coverage in a Block	Number of Non-Rural Census Blocks	POPs Contained in Non-Rural Census Blocks	% of Total U.S. POPs	Square Miles Contained in Those Blocks	% of Total U.S. Square Miles	Road Miles Contained in Those Blocks	% of Total U.S. Road Miles
<i>Total for Non-Rural U.S.</i>	5,768,151	253,319,468	81.8	588,375	15.5	2,230,155	32.7
			% of Total Non-Rural U.S. POPs		% of Total Non-Rural U.S. Square Miles		% of Total Non-Rural U.S. Road Miles
<b>1 or More</b>	5,750,760	253,258,508	100.0	547,045	93.0	2,213,555	99.3
<b>2 or More</b>	5,713,447	252,963,388	99.9	519,407	88.3	2,178,719	97.7
<b>3 or More</b>	5,583,562	251,220,629	99.2	463,342	78.7	2,074,459	93.0
<b>4 or More</b>	5,153,890	241,535,475	95.3	349,922	59.5	1,796,946	80.6
<b>5 or More</b>	1,224,165	47,716,006	18.8	94,078	16.0	452,719	20.3

Note: Based on July 2014 Mosaik Data and 2010 Census Data. This table includes federal lands. Calculations based on Mosaik data on coverage, while useful for measuring developments in mobile wireless coverage, have certain limitations that likely overstate the extent of mobile broadband coverage. The number of providers in a census block reflects network coverage, which does not necessarily reflect the number of choices available to a particular individual or household. *[This table has been updated from January 2014 Mosaik to July 2014 Mosaik data post-release of the 17th Report.]*

**Table III.A.viii**  
**Estimated Mobile Broadband Coverage in Rural Areas by Census Block, July 2014**

Total Number of Providers with Coverage in a Block	Number of Rural Census Blocks	POPs Contained in Rural Census Blocks	% of Total U.S. POPs	Square Miles Contained in Those Blocks	% of Total U.S. Square Miles	Road Miles Contained in Those Blocks	% of Total U.S. Road Miles
<i>Total for Rural U.S.</i>	5,387,335	59,151,859	18.9	3,213,692	84.5	4,591,032	67.3
			% of Total Rural U.S. POPs		% of Total Rural U.S. Square Miles		% of Total Rural U.S. Road Miles
<b>1 or More</b>	5,198,640	58,823,960	99.4	2,284,903	71.1	4,310,622	93.9
<b>2 or More</b>	4,821,786	57,207,075	96.7	1,891,206	58.8	3,816,932	83.1
<b>3 or More</b>	3,374,470	45,349,721	76.7	1,035,083	32.2	2,368,983	51.6
<b>4 or More</b>	1,698,232	26,550,466	44.9	424,190	13.2	1,082,093	23.6
<b>5 or More</b>	442,364	8,032,212	13.6	101,614	3.2	271,213	5.9

Note: Based on July 2014 Mosaik Data and 2010 Census Data. This table includes federal lands. Calculations based on Mosaik data on coverage, while useful for measuring developments in mobile wireless coverage, have certain limitations that likely overstate the extent of mobile broadband coverage. The number of providers in a census block reflects network coverage, which does not necessarily reflect the number of choices available to a particular individual or household. *[This table has been updated from January 2014 Mosaik to July 2014 Mosaik data post-release of the 17th Report.]*

**Table III.A.ix**

**Estimated Mobile Broadband Coverage in Non-Rural Areas by Census Block, July 2014**

Total Number of Providers with Coverage in a Block	Number of Non-Rural Census Blocks	POPs Contained in Non-Rural Census Blocks	% of Total U.S. POPs	Square Miles Contained in Those Blocks	% of Total U.S. Square Miles	Road Miles Contained in Those Blocks	% of Total U.S. Road Miles
<i>Total for Non-Rural U.S.</i>	5,768,151	253,319,468	81.8	588,375	15.5	2,230,155	32.7
			% of Total Non-Rural U.S. POPs		% of Total Non-Rural U.S. Square Miles		% of Total Non-Rural U.S. Road Miles
<b>1 or More</b>	5,757,062	253,294,047	100.0	547,768	93.1	2,218,086	99.5
<b>2 or More</b>	5,722,678	253,054,991	99.9	524,572	89.2	2,187,174	98.1
<b>3 or More</b>	5,506,550	249,871,619	98.6	441,891	75.1	2,020,698	90.6
<b>4 or More</b>	4,793,657	234,227,468	92.5	303,664	51.6	1,632,373	73.2
<b>5 or More</b>	711,445	30,448,832	12.0	45,427	7.7	246,366	11.0

Note: Based on July 2014 Mosaik Data and 2010 Census Data. This table includes federal lands. Calculations based on Mosaik data on coverage, while useful for measuring developments in mobile wireless coverage, have certain limitations that likely overstate the extent of mobile broadband coverage. The number of providers in a census block reflects network coverage, which does not necessarily reflect the number of choices available to a particular individual or household. *[This table has been updated from January 2014 Mosaik to July 2014 Mosaik data post-release of the 17th Report.]*

**Table III.A.viii  
Estimated Mobile Wireless Coverage by Technology, July 2014**

Technology	POPs in Covered Blocks	% of Total POPs	Square Miles Contained in Those Blocks	% of Total Square Miles	Road Miles Contained in Those Blocks	% of Total U.S. Road Miles
CDMA	310,225,784	99.3	2,564,020	67.4	6,166,715	90.4
GSM/TDMA	310,406,456	99.3	2,537,613	66.7	6,096,366	89.4
iDEN	15,315,241	4.9	106185.512	2.8	311048.46	4.6
<b>Total Digital</b>	<b>311,965,690</b>	<b>99.8</b>	<b>2,820,818</b>	<b>74.2</b>	<b>6,480,282</b>	<b>95.0</b>

Note: Includes Federal lands. Commission estimates based on census block analysis of Mosaik CoverageRight coverage maps, July 2014. Population data are from the 2010 Census, and the square miles include the United States and Puerto Rico. *[This table has been updated from January 2014 Mosaik to July 2014 Mosaik data post-release of the 17th Report.]*